

Harnessing Integrated Apps on the Mac - Science

March 5, 2009

Session 4

1. Open Safari (from Dock or Applications folder)

- Go to URL: <http://cffcollabday.wikispaces.com/Science>
- Select "Harnessing Integrated Apps on the Mac" link
- Complete the two initial surveys & return to the wiki page (control-click and open survey URL in new Tab or new Window)
- Click Session Files (from table of contents at top)
 - Click the first link, "RulerHigh.jpg;" the image will appear in the Safari window
 - Control-click (or right click with a two-button mouse) on the image
 - select "Add image to iPhoto library" from the context menu
 - click the Safari Back arrow to return to the wiki page
 - repeat for each of the Ruler images
- Click Science Links (from table of contents at top)
 - Open the first link, "How Things Fly: Bernoulli Brain-Teasers"
 - Control-click the first photo of a girl blowing across a strip of paper
 - select "Add image to iPhoto library" from the context menu
 - repeat for each of the first three photos
 - You are going to do one of these three demonstrations of Bernoulli's principle:
 - 10:20 (Session 2) -- Use Your Lips to Levitate
 - 12:10 (Session 3) -- Suspended in the Air Stream
 - 1:05 (Session 4) -- Balloons that Boggle

2. Open iPhoto (from Dock or Applications folder)

- Select Events
- Select all images collected
- Select File menu --> New Album from Selection and name it "Bernoulli"
- Keep iPhoto open

3. Open Photo Booth (from Dock or Applications folder)

- Take a still photo of each piece of equipment for use in demo
 - select single photo icon (far left in tool bar)
 - position the object in the window
 - click the red shutter button; wait for count down
 - repeat for each item depending on session
 - slips of paper, paper clips (Session 2)
 - straw, ping pong ball, funnel (Session 3)
 - balloons, string, water, funnel, straw (Session 4)
- Create movie of the demonstration
 - select movie icon (left of tool bar, right-most of three icons)
 - position the screen for your demo so the action will be recorded properly (do a little testing to be sure); don't move the screen or the laptop until finished

- click the Effects button (right side of tool bar)
 - select 4th page of effects (with Drag Backdrop Here squares)
 - position the Photo Booth and iPhoto windows so you can see both
 - find the 5 ruler jpg files
 - drag each onto a different block around the central “Normal” block
 - determine which ruler placement works best for your demo and click on it
 - move out of the screen as prompted
 - when you move back in, you will be in the foreground against the ruler background
- click the red shutter button; wait for the count down; perform the demo
- click the stop icon (gray square where the red shutter button had been - center of tool bar)
- Select the photo and click the iPhoto icon to add the movie to your iPhoto library
- Quit Photo Booth and iPhoto

4. Open Keynote

- Select the Black theme (reflections are more effective on Black)
- Select Slide Size of 1024 x 768 (bottom) if not already selected
- Click the Choose button
- Save the file with a suitable name on your Desktop or Documents folder
- Select the View menu --> Zoom --> Fit in Window
- Click the Inspector icon (blue circle, white i -- right side of tool bar)
- Adjust the Keynote window so the Inspector window does not overlap
- Complete the title slide
 - Click inside the Title field; type something like “Bernoulli’s Principle”
 - Click in the text field below and type in your name
 - Click the Media icon to access the photos in iPhoto; click the Photos tab at the top
 - Turn the triangle next to iPhoto if the detail is not already showing
 - click the Bernoulli album
 - drag each of the three photos from the web page to the title slide
 - resize and arrange them around the text
 - select all three (command-click or shift-click 2nd and 3rd)
 - click the Graphic tab in the Inspector window
 - check the Reflection box at the bottom; move the slider to increase or decrease the amount of reflection
 - Save the file (File-->Save or Command-S)
- Create a Materials slide
 - click the New slide button (plus sign icon, left of tool bar)
 - type “Materials” in the slide title field
 - name each item in the bulleted list
 - from the Media window, select and drag the photo of each item onto the slide
 - resize to make each photo small enough to arrange on the slide
 - if necessary, select an image that needs to be cropped, then click the Mask button (middle of tool bar)
 - adjust as needed; click off the image to finish with Mask

- Save the file (File-->Save or Command-S)
- Create a Movie slide
 - click the New slide button
 - since you do not need the bullet field, click the Masters menu in the tool bar; select Blank or Title - Top (if you want a title on the slide); add the title if needed
 - from the Media window, click the Movies tab; find the movie you made in Photo Booth and drag it to the slide
 - position the movie window until you get a vertical and horizontal yellow line indicating center of slide (both must appear together); release the track pad or mouse button
 - close the Media window
 - click the QuickTime tab in the Inspector
 - if necessary, you can trim the movie with the start and stop markers
 - you can set the Poster Frame using the slider -- if the movie does not start as soon as the slide appears, this is the frame that will display even though the movie will play from the first frame when you click to play
 - check the box next to "Start movie on click" to control when the movie begins to play during the slide show
 - leave the Repeat option set to "None"
 - keep the volume at maximum (adjust on your keyboard or speakers)
 - use the controls just to view the movie in edit mode
- Add a blank slide at the end of the presentation; click on the first slide thumbnail
- Save the file (File-->Save or Command-S)
- Play your slide show
- Options Beyond Keynote
 - File-->Export allows you to convert the slideshow to a number of formats including QuickTime, PowerPoint (useful if working across platforms or when uploading to a service like SlideShare on the web), PDF (the universal file format), individual Images (jpeg, png, or tiff), Flash, HTML (for use on a web site as user-controlled slides), and iPod (small file size)
 - File-->Send To allows you to send the slideshow to iDVD, iPhoto, iTunes, iWeb, GarageBand, or directly to YouTube (requires an account)

5. Reflection and Evaluation

- How could Keynote help students learn and demonstrate their understanding in Science?
- Complete the End-of-Session Survey